

## NPS Collaboration Meeting Minutes

**Date:** June 17, 2021

**Time:** 09:00AM – 10:10AM

*Attendees: Fernando Barbosa, Vladimir Berdnikov, Marie Boer, Aaron Brown, Alexandre Camsonne, Rolf Ent, Tanja Horn, Charles Hyde, Steven Lassiter, Paulo Medeiros, Hamlet Mkrtyan, Carlos Munoz, Brannon Semp, Vardan Tadevosyan, Bogdan Wojtsekhowski, Stephen Wood, and Camille Zindy*

### 1. High Voltage Divider Update

*Fernando Barbosa*

1. Presented information regarding the testing for the redesign of the HV divider boards
2. Plan is to use an 8-stage active divider
3. Testing shows a possible current of  $\sim 405 \mu\text{A}$  at an operating voltage of  $\sim 600 \text{ V}$
4. Discussed low voltage distribution PCB placement around crystal array
  - Between two and four PCBs would be needed
  - Low voltage PCBs would be used to provide  $\pm 5 \text{ V}$  to PMT HV divider amplifiers

### 2. DSG Update

*Aaron Brown*

1. Presented [NPS Collaborators' Meeting](#) DSG Update
2. Mindy Leffel completed fabrication of the forty, 140' HV supply cables
  - Testing of the HV supply cables by George Jacobs is in progress – 21 of 40 tested
3. Reviewed progress in the development of the LabVIEW Keysight scanning program and the LabVIEW Hardware Interlock System program
4. Reviewed temperature map of front crystal zone that uses randomly generated temperature values
  - Discussed future plans for thermal analysis of crystal array

### 3. Next meeting: 2021/07/15